NOTIFIER®
by Honeywell

FAPT-851AUS Series

Acclimate™ Multi Criteria Sensor

Intelligent/Addressable Devices



FAPT-851AUS-IV in B501AUS-IV

General

The Notifier FAPT-851AUS-IV/ FAPT-851AUS-W Acclimate™ detector is an intelligent, addressable, multi-criteria, low-profile detector designed for use with Notifier Fire Alarm Control Panels.

The Acclimate™ detector uses a combination of photoelectric and thermal sensing technologies to increase immunity to false alarms. Unlike traditional intelligent detectors, the Acclimate™ detector has a microprocessor in the detector head that processes alarm data. As a result, the Acclimate™ detector adjusts its sensitivity automatically, without operator intervention or control panel programming.

Areas where the Acclimate™ detector is especially useful include office complexes, schools, college campuses, manufacturing and industrial facilities, and anywhere else where the use of a particular area may change over time. The Acclimate™ detector automatically adjusts its sensitivity to the environment.

FlashScan® is a communication protocol developed to greatly enhance the speed of communication between analogue intelligent devices and compatible systems. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel's CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of earlier designs.

Features

- Automatically adjusts sensitivity levels without operator intervention or programming. Sensitivity increases with heat.
- Microprocessor-based, combination photo and thermal technology.
- FlashScan and CLIP compatible.
- Sleek, low-profile design.
- Addressing by switch.
- Dual bi-color LED design provides 360° viewing angle.
- LEDs lock red when in alarm. In FlashScan, LEDs flash green in stand-by for normal condition.
- Built-in tamper-resistant feature.
- Sealed against back pressure.
- Several base options, including relay, isolator, and sounder.
- Built-in functional test switch activated by external magnet.
- Capable of heat-only alarm mode, enabled by a special command from the panel.

Specifications

PHYSICAL/OPERATING SPECIFICATIONS

- Size: 5.3cm high
  10.4 cm diameter when installed on B501AUS
- Weight: 147 g
- Operating Temperature Range: -10°C to 49°C
- Operating Humidity Range: 10% to 93% relative humidity, non-condensing
- Air Velocity: 0 to 1219 m/minute
- Isolator Load Rating: 0.0063*
- Self Diagnostics: Initiated by control panel; activated by test magnet
- Drift Compensation:

  High sensitivity maintenance alert signal

  Low sensitivity maintenance alert signal

  Maintenance urgent signal

ELECTRICAL SPECIFICATIONS

- Operating Voltage Range: 15 to 32VDC
- Standby / Operating Current (max. average): @ 24VDC: 360µA (one communication every 5 seconds with green LED blink on communication
- Maximum Current: 6.5 mA @ 24 VDC (one communication every 5 seconds with amber LED solid on)
- Maximum Alarm Current: 6.5 mA @ 24 VDC (one communication every 5 seconds with red LED solid on)

Ordering Information

Detectors

FAPT-851AUS-IV	Intelligent Acclimate Multi Criteria Heat/Smoke Sensor - Ivory
FAPT-851AUS-W	Intelligent Acclimate Multi Criteria Heat/Smoke Sensor - White

Bases

B501AUS-IV	Universal addressable detector base - Ivory
B501AUS-W	Universal addressable detector base - White

Agency Listings and Approvals

These listings and approvals apply to the devices specified in this document. In some cases, certain devices or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

CSIRO ActivFire listed to

- AS 7240.7 & 7240.5: 2018
- ActivFire certificate # afp - 3357

This document is not intended for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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Country of Origin: China

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Certified Product Australian Standard™

BSI™ ISO9001 FS 520324 ENGINEERING & MANUFACTURING QUALITY SYSTEMS